

Exhibit A
Curriculum Vitae for
Mercedes R. Carnethon,
Ph.D.

October 6, 2022

Mercedes R. Carnethon, Ph.D., FAHA

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EDUCATION

<u>Date</u> <u>Awarded</u>	<u>Institution (Location)</u>	<u>Degree</u>	<u>Discipline</u>
June 1996	Stanford University (Palo Alto, CA)	A.B. (w/ honors)	Human Biology
Dec 1998	University of North Carolina at Chapel Hill (Chapel Hill, NC)	MSPH	Epidemiology
Dec 2000	University of North Carolina at Chapel Hill (Chapel Hill, NC)	Ph.D.	Epidemiology

TRAINING***Postdoctoral Training***

<u>Dates</u>	<u>Institution (Location)</u>	<u>Title</u>	<u>Field</u>
2000-2002	Stanford University School of Medicine, Stanford Prevention Research Center (Palo Alto, CA)	Postdoctoral Fellow	Cardiovascular Disease Epidemiology and Prevention

Leadership Training

<u>Dates</u>	<u>Institution</u>
2007-2008	Management Skills for Innovative University Leaders by the Kellogg School of Management at Northwestern University
2013-2014	Executive Leadership in Academic Medicine (ELAM), Drexel University College of Medicine
2015-2016	Committee on Institutional Cooperation (now BIG Ten Academic Alliance) Academic Leadership Program

LICENSURE / CERTIFICATION

N/A

ACADEMIC APPOINTMENTS

<u>Dates</u>	<u>Title</u>	<u>Institution</u>	<u>Department</u>
2019	Professor	Feinberg School of Medicine, Northwestern University	Medicine (Pulmonology and Critical Care)
2018	Mary Harris Thompson (endowed professorship)		Preventive Medicine
2018	Professor	Feinberg School of Medicine, Northwestern University	Preventive Medicine
2010-2018	Associate Professor	Feinberg School of Medicine, Northwestern University	Preventive Medicine
2002-2010	Assistant Professor	Feinberg School of Medicine, Northwestern University	Preventive Medicine

Administrative appointments

2009-2013	Director, Master of Science in Epidemiology and Biostatistics, Program in Public Health, Feinberg School of Medicine, Northwestern University
2010-2014	Associate Chair for Faculty Development and Mentoring, Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University
2012-2019	Director, Division of Epidemiology, Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University
2014-Present	Vice Chair, Department of Preventive Medicine
2020-Present	Co-Director, Center on Education and Career Development, Northwestern University Clinical and Translational Sciences (NUCATS) Institute

HONORS AND AWARDS

A. Elected Society Memberships

2001	Delta Omega, the Honorary Public Health Society, University of North Carolina at Chapel Hill School of Public Health, Theta Chapter
2006	American Heart Association (AHA) Council on Epidemiology and Prevention and Council on Lifestyle Medicine (FAHA)
2012	Fellow, Institute of Medicine Chicago (IOM-Chicago)

B. International/National/Regional

2002	Finalist, Jeremiah and Rose Stamler Award for New Investigators at the American Heart Association Council on Epidemiology Annual Meeting, Honolulu HI
2002	First prize poster, Society for Epidemiologic Research Annual Meeting, Palm Desert, CA
2008	Kaiser Permanente Division of Research Outstanding Paper Award: "A 20 Year Prospective Study of Childbearing and Incidence of Diabetes in Young Women: CARDIA" Published in Diabetes. Lead author: Erica P. Gunderson (Role = Co-author)
2011	Special Recognition Award, Council on Epidemiology and Prevention, American Heart Association, Scientific Sessions 2011
2022	Commencement keynote speaker at the University of Pittsburgh Institute for Clinical Research and Education graduation ceremony

C. University

1996	Graduation speaker, Program in Human Biology, Stanford University
2001	Katherine McCormick Fund for women, Stanford University School of Medicine, Travel Award
2014	Outstanding Service Award, The Graduate School, Northwestern University
2018	Feinberg School of Medicine, Faculty Mentor of the Year

INSTITUTIONAL SERVICE (Committees, Councils, Task Forces)

A. University

2007-2009	One Northwestern, Faculty Committee
2010-2011	Search Committee for Dean of Feinberg School of Medicine, Northwestern University
2011-2013	University Diversity Council, Committee on Faculty Recruitment (Co-Chair)
2012-2013	Search Committee for Chair of Neurosurgery
2014-2015	Search Committee for Chair of Pediatrics
2016	Search Committee for Director of the Institute for Public Health and Medicine
2013-2018	University Diversity Council
2015-2019	Excellence in Diversity Committee
2015-2017	Faculty Mentoring Initiative Committee
2016-2017	Search Committee for Chair of Pediatric Psychiatry
2016-Present	Provost's Council on Women
2016-2018	Provost's Council on Women, Subcommittee Chair Faculty Development and Mentoring

2020 Search Committee for Chair of Pediatrics
 2022 Search Committee for the Chair of the Department of Medical Social Sciences

B. School

2003– 2004 Liaison Committee on Medical Education, Faculty Committee. Medical school accreditation committee.
 2005-2008 Obesity Research Center Initiative Steering Committee
 2012- Present Mentor training workshop facilitator, Northwestern University Clinical and Translational Science Institute
 2013- 2014 Program Lead, Program on Epidemiologic Approaches to Behavior Change, Center for Behavior and Health, Institute for Public Health and Medicine
 2014- 2016 Steering Committee Patient Centered Outcomes Training Award, Department of Medical Social Sciences (MSS)
 2014- Present Steering Committee KL2 (junior faculty) and TL1 (postdoctoral fellow) award, Northwestern University Clinical and Translational Science (NUCATS) Institute
 2015- Present Steering Committee Office of Diversity and Inclusion
 2016 Grant Review NUCATS KL2 Awards
 2017 Grant reviewer, Institute for Public Health and Medicine (IPHAM) Center for Bioethics
 2017 Vascular Surgery Postdoctoral Training Program, Steering Committee
 2018- Present Steering Committee, NW University Program in Endocrinology, Diabetes and Hormone Action (T32 DK007169, PI: Bass)
 2018-Present General Internal Medicine Fellowship, Leadership Committee
 2018-2019 Task Force on Diversity Recruiting, Hiring and Promotions
 2018-2019 Appointments Promotion and Tenure Committee Feinberg School of Medicine
 2020-Present Associate Chair, Appointments, Promotion and Tenure Committee, Feinberg School of Medicine

C. Department

2002 –2004 Masters of Public Health Program, Curriculum Committee
 2002 –2004 Masters of Public Health Program, Diversity Committee
 2004 –2008 Masters of Public Health Program, Diversity Committee (Chair)
 2006 –2009 Masters of Public Health Program, Delta Omega Honorary Public Health Society, Beta Eta Chapter (Secretary)
 2006 –2009 Masters of Science in Epidemiology and Biostatistics Advisory Committee
 2009 - Present Program in Public Health Diversity Committee (Member)
 2009 -2011 Program in Public Health Curriculum Committee (Chair)
 2009-Present Program in Public Health, Delta Omega Honorary Public Health Society, Beta Eta Chapter (Secretary)
 2018- Internal Advisory Committee, Multidisciplinary Training Program in Digital Mental Health (T32 MH115882 PI: Mohr)
 2019- Department Wellness Committee

PUBLIC/COMMUNITY SERVICE

2012- Present Steering Committee, Northwestern Medicine Scholars Partnership with George Westinghouse High School
 2012 Program Co-Chair, Summer Cardiology Curriculum for Northwestern Medicine Scholars
 2016 Program Chair, Summer Public Health Advocacy Curriculum for Northwestern Medicine Scholars Partnership
 2017-2019 Youth T-Ball Coach, Hyde Park Kenwood Legends
 2019- Assistant Coach, Track and Field, the Frances Xavier Warde School

2020-2022 Health Task Team Member, The Frances Xavier Warde School

PARTICIPATION IN PROFESSIONAL SOCIETIES AND EXTRAMURAL ORGANIZATIONS

A. Professional Society Memberships

2003 - 2008	Epidemiology Liaison, AHA Council on Nutrition, Physical Activity and Metabolism, Committee on Nutrition
2003 - 2006	AHA Council on NPAM representative, Industry Nutrition Advisory Panel (Member)
2003 - 2009	American Heart Association, Council on Epidemiology and Prevention, Committee on Minorities
2005 - 2007	American Diabetes Association Spring Program Committee Council on Epidemiology and Statistics
2008 - 2010	AHA Council on Epidemiology and Prevention Statistics Committee
2009 - 2011	AHA Science Advisory Coordinating Committee
2009 - 2011	AHA Executive Database Steering Committee
2006 - 2011	AHA Council on Epidemiology and Prevention Leadership Committee
2010 - 2011	AHA Committee for Scientific Sessions Program
2010 - 2013	National Institutes of Health (NIH), Sleep Disorders Research Advisory Board Member
2011 - 2012	AHA Research Committee
2011- 2016	AHA Midwest Research Council
2011 - 2015	AHA Council on Nutrition, Physical Activity and Metabolism, Physical Activity Committee
2011 - 2013	AHA Council on Nutrition, Physical Activity and Metabolism, Leadership Committee
2012 – Present	Sleep Medicine Society, Associated Professional Sleep Societies
2014 – 2015	American Association of Medical Colleges (AAMC), Planning Committee for Minority Midcareer Faculty Development Workshop
2014- 2016	AHA Mission Metrics Committee
2014- 2016	AHA Worksite Wellness Steering Committee
2015- 2016	AHA Diversity Leadership Committee
2014- 2017	AAMC Planning Committee for the Early Career Faculty Development Workshop
2014- Present	AHA Strategically Focused Research Network Steering Committee
2015- 2019	AHA Council on Epidemiology and Prevention, Nominating Committee
2016- 2018	AHA Council on Epidemiology and Lifestyle, Lifelong Learning Program Committee
2016- 2018	AHA Research Committee, Funding Subcommittee
2018- Present	AHA Women in Science and Medicine Task Force
2017- Present	AHA Council on Lifestyle, Obesity Subcommittee
2019- 2020	AHA Diversity Research Pipeline Task Force
2019- Present	Chicago Metropolitan Board of the American Heart Association
2021-	Member, NHLBI Board of Scientific Counselors

B. Leadership and Service (leadership positions held, committee service, etc.)

2006 - 2008	Vice Chair, AHA Interdisciplinary Council on Prevention
2007 - 2010	Chair, Physical Activity/Anthropometry Committee, HCHS/SOL
2008 - 2011	Chair, AHA Interdisciplinary Council on Prevention
2008 - 2011	Chair, AHA Council on Epidemiology and Prevention Publishing Committee
2009 - 2016	Co-Chair, Diabetes and Obesity working group, CARDIA Study
2016- 2018	Observational Studies Monitoring Board, SEARCH for Diabetes in Youth Study, NIDDK
2018- 2019	Chairperson, Observational Studies Monitoring Board, SEARCH for Diabetes in Youth Study
2013 - 2018	Co-Chair Diabetes and Obesity Working Group, Jackson Heart Study
2019- 2021	Vice Chair, AHA Council on Lifestyle, Obesity Subcommittee
2021-	Chair, AHA Council on Lifestyle, Obesity Subcommittee
2022-	Board President, Chicago Metropolitan Board of the American Heart Association
2022-	Vice Chair, AHA Council on Epidemiology and Prevention

C. Other Professional Service

2012- Present	External Advisory Board, Cardiovascular Epidemiology Training Grant (T32HL007055 PI: Rosamond)
2017- Present	External Advisory Board, Cardiovascular Disease Epidemiology & Prevention (T32HL007779 PI: Folsom)
2018	NIH/NHLBI Workshop to Promote Diversity Training and Initiatives, Invited Speaker
2018	External Evaluation Panel, Treatment Options for type 2 Diabetes in Adolescents and Young Adults (TODAY) Study
2020	NIH/NHLBI Search Committee for the Director of the Jackson Heart Study
2021	NIH/NEI Ad Hoc Review for Intramural Faculty

EDITORIAL AND MANUSCRIPT REVIEW RESPONSIBILITIES***Editorial Responsibilities***

2014	Associate Editor, <i>Current Nutrition Reports</i>
2011 - 2016	Guest Editor, <i>Circulation: Journal of the American Heart Association</i>
2016 – 2017	Editorial Board (Associate Editor), <i>Circulation: Journal of the American Heart Association</i>
2019-	Associate Editor, <i>Circulation: Journal of the American Heart Association</i>
2020-	Guest Editor-in-Chief, <i>Circulation</i> . Special Issue on Disparities in Cardiovascular Diseases
2022-	Guest Editor-in-Chief, <i>Circulation</i> . Special issue on heart disease in women

Ad Hoc Manuscript Review

American Journal of Epidemiology; American Journal of Cardiology; American Journal of Preventive Medicine; Journal of Human Hypertension; Annals of Epidemiology; Annals of Internal Medicine; Archives of Internal Medicine/ JAMA-Internal Medicine; Circulation; Diabetes; Diabetes Care; Diabetologia; Health Education Research; Journal of Adolescent Health; Journal of the American College of Cardiology; Journal of the American Medical Association (JAMA); Obesity; Obesity Research; Psychosomatic Medicine; Journal of Diabetes; New England Journal of Medicine; Journal of Physical Activity and Public Health; JAMA-Cardiology; Journal of Sleep Medicine; Journal of Diabetes Complications; PLOS One; Sleep Health; Sleep Medicine; Sleep; Frontiers in Public Health

GRANT REVIEW RESPONSIBILITIES

2004	Canadian Foundation for Innovation (ad hoc review)
2006	South African Foundation for Medical Research (ad hoc review)
2006	Yale University Clinical Research Grant Programs (ad hoc review)
2007	National Heart Lung and Blood Institute/National Institutes of Health (NHLBI/NIH) Special Contract Review
2009	NIH American Re-investment and Recovery Act (ARRA) Grant Review (Stage 1 review)
2010	NIH/Center for Scientific Review (CSR) Kidney, Nutrition, Obesity and Diabetes/ Cardiovascular and Sleep Epidemiology Conflict Special Emphasis Panel (February)
2010	Kidney Nutrition Obesity and Diabetes, at-large member (June 2010)
2010-2014	AHA Grant Review, Genomics Translational Biology and Observational Epidemiology (GTOE) Review Panel, member
2014	AHA Grant Review, GTOE Review Panel, Co-Chair of Review Panel
2014-2018	NIH Center for Scientific Review, Kidney Nutrition Obesity and Diabetes (KNOD), standing member
2015-2017	NIH/NHLBI Sponsored Mentored Career Development Awards to Promote Diversity, Ad hoc review in 2015 (July), 2017 (March and July)
2018-2019	NIH Center for Scientific Review Kidney Nutrition Obesity and Diabetes (KNOD), Chairperson
2020	NIH Special Emphasis Panel Disparities Elimination through Coordinated Interventions to Prevent and Control heart and Lung Disease Risk (DECIPHER)

2020 Centers for Disease Control and Prevention DP20-002 Natural Experiments of the Impact of Population-targeted Policies to Prevent Type 2 Diabetes and Diabetes Complications

2021 Mobile technology interventions to reduce disparities, Ad Hoc Review NIH, Chairperson

GRANT AWARDS**A. Current**

Agency: NIH/NHLBI
ID#: 1R01HL125423-01A1
Title: *Determinants and Cardiovascular Consequences of Disparities in Sleep and Circadian Rhythms between black and white adults*

Principal Investigator: Carnethon, M (contact)/ Knutson KL
Role on project: MPI
Percent effort: 20%
Project period: 08/01/2020-03/31/2024

Agency: NIH/ NHLBI
ID#: U01HL146408
Title: *The American Lung Association (ALA) Lung Health Cohort*

Principal Investigator: Kalhan R (contact), Washko G, Carnethon M and Sugar E
Role on project: MPI
Percent effort: 15%
Project period: 06/17/2019- 03/31/2025

Agency: NIH/ NIA
ID#: R01AG059291
Title: *Disparities in Sleep and Cognitive function in Older Adults (DISCO): An Epidemiologic Study*

Principal Investigator: Knutson KL (contact) and Carnethon MR
Role on project: MPI
Percent effort: 15%
Project period: 04/01/2019- 03/31/2023

ID#: R01MD011570-03
Agency: NIH/NIMHD
Title: *ELLAS: Environment, Leiomyomas, Latinas and Adiposity Study*

Principal Investigator: Marsh, E
Role on project: Consortium PI
Percent effort: 5%
Project period: 02/01/17-01/31/22 (in NCE)

Agency: NIH/NHLBI
ID#: HHSN268201500003I
Title: *Multi-Ethnic Study of Atherosclerosis (MESA): Field Center*

Principal Investigator: McClellon, R/ Allen N
Role on project: Co-investigator
Percent effort: 5%
Project period: 08/15/15 – 08/14/23

Agency: NIH/NHLBI

ID#: HHSN268201800003I
Title: *Coronary Artery Risk Development in Young Adults (CARDIA) Study – Chicago Field Center*
Principal Investigator: Lloyd-Jones, D (contact) and Carnethon M
Role on project: MPI
Percent effort: 10%
Project period: 07/01/18 – 06/30/23

Agency: NIH/NHLBI
ID#: 1R01HL149866
Title: *Cardiovascular Health Associations with Minority Stress: Biobehavioral Evaluations and Reported Sociopsychological outcomes by SOGI status (CHAMBERS)*
Principal Investigator: Beach, L.
Role on project: Co-Investigator
Percent effort: 1%
Project period: 07/01/2020-06/31/2025

Agency: American Lung Association
ID#: N/A
Title: *COVID-19 in Young Adults in the Lung Health Cohort*
Principal Investigator: Kalhan, R
Role on project: Co-Investigator
Percent effort: 1%
Project period: 12/01/20-12/31/23

Agency: NIH/NHLBI
ID#: 1R01HL149796
Title: *Young Adult and Midlife Transitions in Physical Activity and Sedentary Behavior with Heart Failure Risk and Progression: Coronary Artery Risk Development in Young Adults*
Principal Investigator: Gabriel, KP
Role on project: Co-Investigator/Subcontract PI
Percent effort: 5%
Project period: 07/01/2020-06/31/2024

Training Grants and Mentoring Awards

Agency: NIH/ National Center for Advancing Translational Sciences
ID#: 5UL1TR001422
Title: *Northwestern University Clinical and Translational Science Institute (NUCATS)*
Principal Investigator: D'Aquila, R
Role on project: Co-Director Center for Education and Career Development
Percent effort: 15%
Project period: 09/01/19-08/31/24

Agency: NIH/ NHLBI
ID#: T32HL069771
Title: *Research Training in CVD Epidemiology and Prevention*
Principal Investigator: Carnethon MR

Role on project: PI
 Percent effort: 10% (Cost Share)
 Project period: 02/01/2019-1/31/2024

Agency: NIH/ NHLBI
 ID#: K01 HL147995
 Title: ***ACHIP-ACES and Cardiometabolic Health in Pediatrics: Using a Coping and Stress Reduction Intervention to Reduce Cardiometabolic Risk in Adolescents with Adversity***

Principal Investigator: Heard-Garris, Nia
 Role on project: Secondary Mentor
 Percent effort: 5% (No salary support)
 Project period: 07/1/2019 – 06/30/2024

Agency: NIH/ NHLBI
 ID#: K01HL145345
 Title: ***Quantifying compliance to the new 2017 hypertension guidelines and investigating the association between guideline compliance and patients' trajectory of blood pressure***

Principal Investigator: Tedla, Jacob
 Role on project: Secondary Mentor
 Percent effort: 5% (No salary support)
 Project period: 02/01/2020- 01/31/24

Agency: NIH/NHLBI
 ID#: 1K01HL152009
 Title: ***Predicting risk of cardiotoxicity among young and emerging adult breast cancer patients from treatment to survivorship***

Principal Investigator: Hibler, E.
 Role on project: Primary Mentor
 Percent effort: 5%
 Project period: 04/01/2020-03/31/2025

Agency: NIH/NHLBI
 ID#: K01HL149987
 Title: ***Developing an intervention targeting sleep disturbances among bereaved individuals***

Principal Investigator: Chirinos Medina, D
 Role on project: Primary Mentor
 Percent effort: 5%
 Project period: 07/01/2020-06/31/2025

Agency: NIH/NIDDK
 ID#: 2P30DK092949
 Title: ***Chicago Center for Diabetes Translation Research***

Principal Investigator: Chin, Marshall and Ackermann R
 Role on project: Co-Investigator Pilot & Feasibility Core
 Percent effort: 1%
 Project period: 08/01/2021-

B. Pending

Agency: NIH/NHLBI
 ID#:
 Title: ***Association of obesity and nutrition on lung health: Lung Health Cohort***
 Principal Investigator: Bose, Sonali and Hanson, Corrine (MPIs)
 Role on project: Co-Investigator
 Percent effort: 5%
 Project period: 12/01/2022-11/30/2026

Agency: NIH/NHLBI
 ID#: K99HL168338A
 Title: ***Developing, Validating and Implementing an Epidemiological Instrument to Assess the Effect of Resistance Training on Measures of Cardiometabolic Disease***
 Principal Investigator: Booker, Robert
 Role on project: Primary Mentor
 Percent effort: 5%
 Project period: 12/01/2022-11/30/2026

C. Past

Agency: NIH/NHLBI
 ID#:
 Title: ***Third Coast HIV-related Heart, Lung, Blood, and Sleep K12 Scholars Program: TC-HLBS K12***
 Principal Investigator: Schneider J and Ardehalli H
 Role on project: Executive Committee/Mentor
 Percent effort: 5%
 Project period: 08/01/2018-7/30/2022

Agency: NIH/NICHD
 ID#: R01HD088638
 Title: ***Study of Ovarian Aging and Reserve in Young Women (SOAR)***
 Principal Investigator: Marsh, E
 Role on project: Consortium PI
 Percent effort: 5%
 Project period: 02/01/17-01/31/22 (in NCE)

Agency: AHA
 ID#:
 Title: ***Northwestern University Strategically Focused Vascular Disease Research Network***
 Principal Investigator: McDermott, M
 Role on project: Training Director
 Percent effort: 5% (Cost Share)
 Project period: 04/01/2018 – 03/31/2022

Agency: NIH/NIDDK
 ID#: P30
 Title: ***George M. O'Brien Kidney Core Center at Northwestern***
 Principal Investigator: Quaggin, S
 Role on project: Co-Investigator
 Percent effort: 4%

Project period: 08/01/2018-

Agency: NIH/ NHLBI

ID#:

Title: *Depressive Symptom Presentation and Course, Cardiovascular Events and Mortality in the Coronary Artery Risk Development in Young Adults Study*

Principal Investigator: Chirinos Medina, Diana

Role on project: Primary Mentor

Percent effort: 5% (No salary support)

Project period: 02/01/2019- 01/31/21

Agency: NIH/NIDDK

ID#: 2R01DK081371-06

Title: *Strength Training Regimen for Normal weight Diabetics (STRONG-D)*

Principal Investigator: Palaniappan, L

Role on project: Consultant

Project period: 04/15/2014 - 04/14/2019 NCE

Agency: NIH/NIDDK

ID#: R01 DK106201-01

Title: *Pregnancy-Related Risk Factors and Glucose Intolerance in Women during Midlife*

Principal Investigator: Gunderson, E

Role on project: Consortium PI

Percent effort: 2%

Project period: 06/01/15 – 06/30/20

Agency: American Heart Association

ID#: 15SFDRN25080331

Title: *Phosphate and FGF 23: Dietary and Molecular Mediators of Health disparities in Cardiovascular and Kidney diseases*

Principal Investigator: Wolf M and Carnethon M

Role on project: Consortium PI/ Center Director

Percent effort: 10%

Project period: 06/01/15 – 05 /31/19

Agency: NIH/ NHLBI

ID#: K01 HL133531

Title: *A Systems Science Approach to Understanding Racial/Ethnic Disparities in Obesity*

Principal Investigator: Kershaw, K

Role on project: Primary Mentor

Percent effort: 5% (No salary support)

Project period: 08/15/2016 – 05/31/2020

Agency: American Heart Association

ID#: 15SFDRN25550149

Title: *Contribution of Fibroblast Growth Factor 23 (FGF23) to Racial Disparities in Left Ventricular Mass and Albumin/Creatinine Ratio*

Principal Investigator: Carnethon, M

Percent effort: 20%

Project period: 06/01/15 – 05/31/2020

Agency: NIH/NHLBI

ID#: 1R56HL125423-01A1

Title: ***10-Year Changes on Objective-Measured Physical Activity and Sedentary Behavior in the CARDIA Cohort***

Principal Investigator: Sidney, S/ Gabriel K

Role on project: Consortium PI

Percent effort: 2%

Project period: 09/15/15-08/31/17

Agency: NIH/NIDDK

ID#: 1 R21 DK112066-01

Title: ***Improving Diabetes Risk Assessment and Screening in Minority-Predominant Community Health Center Patients***

Principal Investigator: O'Brien M

Role on project: Co-investigator

Percent effort: 5%

Project period: 09/20/16 – 08/31/18

Agency: NIH/NHLBI

ID#: HHSN26820130047C

Title: ***Jackson Heart Study Field Center***

Principal Investigator: Correa, A

Role on project: Consortium PI

Percent effort: 10%

Project period: 08/16/13 – 8/12/18 (NCE)

Agency: NIH/NHLBI

ID#: HHSN268201300027C

Title: ***Coronary Artery Risk Development in Young Adults (CARDIA) Study – Chicago Field Center***

Principal Investigator: Lloyd-Jones, D

Role on project: Co-Principal Investigator

Percent effort: 5%

Project period: 07/01/13 – 06/30/18

Agency: American Heart Association

Title: ***Northwestern University Strategically Focused Prevention Research Network***

Principal Investigator: Greenland P

Role on project: Training Director

Percent effort: 10%

Project period: 07/01/14 – 06/30/18

Agency: NIH/NHLBI

ID#: 1R01HL102130

Title: ***Hispanic Community Children's Health, Study of Latino Youth: SOL-Youth***

Principal Investigator: Carnethon M/ Isasi C, Bangdiwala S, Delamater A, Ayala G

Role on project: Multiple PI

Percent effort: 15%

Project period: 04/01/2011-11/30/2016

Agency: NIH/ NHLBI

ID#: 1R01 HL092140-01A2

Title: *Autonomic, Endothelial and Inflammatory Correlates of Sleep Duration*

Principal Investigator: Carnethon M

Percent effort: 20%

Project period: 07/01/2009 – 06/30/2015

Agency: NIH/NIDDK

ID#: 1R21DK082903 - 01A1

Title: *Epidemiologic Studies of Type 2 Diabetes in Normal Weight Adults*

Principal Investigator: Carnethon M

Percent effort: 20%

Project period: 7/27/09-6/30/12

Agency: NIH/ NIA

ID#: R56AG05291

Title: *An Epidemiologic Study of Disparities in Sleep and Cognitive Outcomes (DISCO)*

Principal Investigator: Knutson KL/ Carnethon MR

Role on project: Multiple PI

Percent effort: 15%

Project period: 09/15/2018-8/31/2019

Agency: NIH/NHLBI

ID#: R56HL125423-01A1

Title: *10-Year Changes in Objectively-Measured Physical Activity and Sedentary Behavior in the CARDIA Cohort*

Principal Investigator: Sidney S

Role on project: Consortium PI

Percent effort: 2%

Project period: 9/1/15 – 8/1/17

Agency: NIH/NHLBI

ID#: RC2 HL101649-01

Title: *Ancillary to HCHS/SOL: Sociocultural Factors and CVD risk/prevalence in Hispanics*

Principal Investigator: Gallo L and Penedo F

Role on project: Consortium PI

Percent effort: 20%

Project period: 9/30/09 – 7/31/12

Agency: NIH/NHLBI

ID#: R01 HL078972-02

Title: *20-Year Changes in Fitness & Cardiovascular Disease Risk*

Principal Investigator: Sidney S

Role on project: Consortium PI

Percent effort: 25%

Project period: 12/01/2005 – 11/30/2008

Agency: NIH/ NHLBI

ID#: 5 R01 HL078972-03
Title: *Body Mass & Lung Function: Impact of Physical Activity & Fitness in Young Adults*
Principal Investigator: Sidney S/ Hankinson A
Role on project: Consortium PI/ Mentor for Diversity Supplement
Percent effort: No salary support

Agency: NIH/ NIA
ID#: 5 P01 AG011412-11
Title: *Sleep and Weight Gain in Midlife: An Epidemiologic Study*
Principal Investigator: Van Cauter E/ Liu K
Role on project: Co-investigator
Percent effort: 5%
Project period: 04/01/2003 – 03/31/2009

Agency: Northwestern University Community Engaged Research Center Faculty Development Award
ID#: N/A
Title: *Diabetes Care and Control in the Austin Community*
Principal Investigator: Carnethon M
Project period: 08/01/2011 – 07/30/2012

Agency: Diabetes Action Research and Education Foundation
Title: *Coaching for Control: A Pilot Study of a Medical Student Intervention to Promote Diabetes Self Care in High Risk Settings*
Principal Investigator: Carnethon M
Percent effort: 1%
Project period: 01/01/2013 – 12/31/2013

Agency: NIH/ NHLBI
ID#: K01 HL73249-01
Title: *Autonomic Function in Insulin Resistance and Diabetes*
Principal Investigator: Carnethon M
Percent effort: 75%
Project period: 06/01/2003 – 05/31/2006

INVITED LECTURES

A. International/National

1. "Evidence for Identifying the Temporal Association between Depression and Diabetes". University of Alabama, Birmingham Obesity Research Seminar Series. April 2006.
2. "Epidemic of Obesity and Diabetes in Children and Adolescents" New York State Diabetes Association. Saratoga Springs, NY. June 2006.
3. "Cardiorespiratory fitness in women". American Heart Association Scientific Sessions. Orlando Florida November 2007.
4. "Physical Activity and CVD—How Much is Enough?" Building Healthy Lifestyles Conference, Arizona State University, Mesa, AZ, February 2008.
5. "Depression and Diabetes". to the Community Health Plan of Seattle Behavioral Medicine and Health Conference (Seattle, WA) May 2008
6. "Association of Physical Activity and Fitness on the Development of Cardiovascular Disease Risk Factors in Women: CARDIA". Symposium, American College of Sports Medicine Annual Meeting (Seattle, WA) May 2009.

7. "Free sources of physical activity data for epidemiologic research" American College of Sports Medicine, Tutorial (Baltimore, MD). June 2010.
8. Epidemiology of type 2 diabetes in normal weight adults." Department of Epidemiology, University of North Carolina at Chapel Hill (Chapel Hill, NC); Department of Health Studies (Winston-Salem NC); Stanford Prevention Research Center (Palo Alto, CA). March 2011.
9. "Risk factors associated with development of normal weight diabetes" America Heart Association Council on Epidemiology and Prevention (Atlanta, GA) March 2011.
10. "Cost effectiveness of workplace wellness programs". European Society for the Prevention of Cardiovascular Disease. (Geneva, Switzerland) April 2011.
11. "Dose-response of physical activity in relation to metabolic disorders" Palo Alto Medical Foundation, Mountain View, CA, October 2011
12. "Building an Innovative Research Career". Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC December 2011.
13. "Sleep and Cardiovascular Disease: An Understudied Risk Factor". University of Alabama at Birmingham, Department of Epidemiology, March 2012.
14. "Epidemiologic Study of Racial and Ethnic Differences in Sleep". Perelman School of Medicine, University of Pennsylvania Center for Sleep and Circadian Neurobiology. June 2013
15. "Work/life balance". AAMC Minority Faculty Development Conference. New Orleans, LA October 2013.
16. "Current State of Workplace Wellness Programs: Are they Ready for Prime Time?" American Heart Association Scientific Sessions, Dallas, TX November 2013
17. "Contribution of Low Fitness to Race/Ethnic Differences in Diabetes Onset and Complications" American Heart Association Scientific Sessions, Dallas, TX November 2013
18. "Physical Activity in Type 2 Diabetes" American Heart Association Scientific Sessions, Dallas, TX November 2013
19. "Metabolically Obese Normal Weight and Metabolically Healthy Obese: Are these truly unique phenotypes?" Department of Nutrition. Cardiovascular Disease Epidemiology Seminar Series. Harvard School of Public Health. December 2013.
20. "Clinical consequences of metabolically obese normal weight" The Obesity Society Annual Meeting. Boston, MA. October 2014
21. "Prevention of obesity and cardiovascular diseases" The American Heart Association Scientific Sessions. Orlando, FL 2015.
22. "Contribution of Lifestyle Behaviors to the Obesity Paradox in Diverse Populations" Department of Kinesiology, Pennsylvania State University, State College, PA. March 2, 2016
23. "Racial disparities in chronotype and the contribution to cardiovascular disease". Associated Professional Sleep Society, Denver CO, June 2016
24. "Race/Ethnic Differences in Sleep Related Cardiovascular Disease" Program to Increase Diversity in Behavioral Medicine and Sleep Disorders Research (PRIDE) NYU Langone Medical Center. New York, August 1, 2017
25. "Rapid Fire Science". American Heart Association Emerging Research Leaders Conference Faculty. Denver, CO September 18, 2017
26. "Obesity and Diabetes: A Public Health Crisis in Hispanic/Latinos". Oral Symposium. The Obesity Society, Washington DC, October 31, 2017
27. "Racial/Ethnic Disparities in Cardiovascular Disease" Invited Panelist Annual Conference at University of Alabama Birmingham NIMHD funded U54 Center for Healthy African American Men through Partnerships (CHAAMPS). October 30, 2017
28. "Healthy Aspirations: The Disconnect between Americans Desire for a Healthy Lifestyle and Actual Lifestyle in the United States". American Heart Association Scientific Sessions. Anaheim, CA. November 12, 2017
29. "Cardiovascular Health in African Americans" Medical University of South Carolina School of Nursing, Charleston, SC. May 2018.
30. "Career Development Award Mechanisms to Promote Diversity at the NHLBI", NIH/NHLBI Bethesda, MD May 2018
31. "Cardiovascular Disease Disparities in the United States", NIH/NHLBI and EPA meeting Bethesda, MD May 2019

32. "Neighborhood Influences on Obesity" Martin Luther King, Jr Disparities Seminar at the University of Vermont School of Medicine, January 2020
33. "Reproductive History as a Cardiovascular Disease Risk Factor for Women". University Hospitals, Case Western Reserve University Cardiology Grand Rounds, February 2020
34. "The COVID-19 Pandemic and Seniors: A Look at Racial Health Disparities". US Senate Special Committee on Aging Testimony on July 21, 2020
35. "Obesity and Women's Health". National Heart, Lung and Blood Institute Conference on Women's Health. September 2020
36. "Role of Underlying Chronic Conditions on Long-Term COVID-19 Outcomes". National Disability Forum Conference for the Social Security Administration, November 18, 2020
37. "COVID-19 and Vaccines". RURAL Health Study Go Red for Women Workshop. February 27, 2021 Jackson, MS
38. "Vaccine Equity Panel" Society for Epidemiologic Research, Experts Panel. March 9, 2021.
39. "The 24-Hour Activity Cycle: How the Balance and Timing of Physical Activity, Sleep and Diet Contribute to Metabolic Health". The William Hansel Visiting Lectureship at the Pennington Biomedical Research Center, Baton Rouge, LA. March 11, 2021.
40. "Disparities in COVID-19 and the Role of Cardiovascular Diseases". American Heart Association, Council on Epidemiology and Prevention Keynote address. March 2021

B. Regional (Midwest USA and Chicago, IL)

1. "Worksite Wellness Programs for Cardiovascular Disease Prevention." Medicine Grand Rounds, St. Joseph's Regional Hospital (South Bend, IN) March 17, 2010.
2. "Balancing professional and personal interests". AAMC Minority Faculty Development Conference. Chicago, IL October 2012.
3. "Women and cardiovascular disease". Women's Health Course at the University of Chicago. January 2013
4. "Metabolically Healthy Obese and Metabolically Obese Normal Weight: Implications for Diabetes and Mortality". Symposium. American Diabetes Association Scientific Sessions. Chicago, IL June 2013
5. "Metabolically Healthy Obesity: Realty or Fantasy?" Advances in Cardiovascular Lifestyle Medicine. William Beaumont Health System, Detroit, MI. March 2014
6. "Contribution of Lifestyle Behaviors on the Obesity Paradox" University of Illinois at Chicago Department of Physical Therapy. Chicago, IL March 2015
7. "Obesity Paradox in Diabetes Outcomes". Division of Endocrinology Rounds, John H. Stroger Hospital. Feb 2018.
8. "COVID-19 in the Chicago, IL Area". St. James Catholic Church Social Care Board. February 11, 2021
9. "Understanding the Importance of COVID-19 Vaccines". Noble Charter School Network. February 17, 2021

C. Local (Northwestern University)

1. "Role of Lifestyle Factors on Metabolic Syndrome". Feinberg School of Medicine, Northwestern University Alumni Weekend. April 2006.
2. "Metabolic Syndrome and Heart Disease in Women". Women and Heart Disease Conference. Feinberg School of Medicine. (Chicago, IL). February 2010
3. "Social and cultural determinants of diabetes". Health Disparities week. Feinberg School of Medicine, Northwestern University October 2011
4. "Global Burden of Cardiovascular Disease Attributable to Diabetes and Hypertension" International meeting on hypertensive and diabetic heart disease. Division of Cardiology, Feinberg School of Medicine, Northwestern University, October 2011.
5. "Population Studies of Metabolically Obese Normal Weight", Endocrinology Grand Rounds/Northwestern Comprehensive Center for Obesity, Feinberg School of Medicine, Northwestern University October 2011.
6. "Disparities in Sleep Characteristics by Race/Ethnicity: A Population Based Study". Northwestern University Institute for Population Research Seminar Series.
7. "Careers in Epidemiology and Translational Science". Medical Student Research Conference, Feinberg School of Medicine, Northwestern University. June 2013.

8. "Racial Disparities in Diabetes Onset and Complications". Institute for Public Health and Medicine, Feinberg School of Medicine, March 2018.
9. "Mentoring Workshop: 2 Guiding Principles". Feinberg School of Medicine, March 2018
10. "Developing S.M.A.R.T. goals" General Internal Medicine, Spring 2019
11. "Negotiations: The Power of 'No'" Women in Medicine Conference, Feinberg School of Medicine Northwestern, October 2019.
12. "Career planning and Goal Setting" Department of Dermatology, November 2019
13. "Individual Career Advancement Plans and the Development of SMART goals" Department of Rheumatology, December 2019
14. "Career Advancement Planning" Department of Pathology, December 2019

PUBLICATIONS AND SCHOLARLY WORK

A. Peer-Reviewed Original Investigations

1. Din-Dzietham R, Liao D, Diez-Roux A, Nieto FJ, Paton C, Howard G, Brown A, **Carnethon M**, Tyroler HA. Association of educational achievement with pulsatile arterial diameter change of the common carotid artery: the Atherosclerosis Risk in Communities (ARIC) Study, 1987-1992. *Am J Epidemiol.* 2000;152(7):617-627
2. **Carnethon MR**, Liao D, Evans GW, Cascio WE, Chambless LE, Heiss G. Correlates of the shift in heart rate variability with an active postural change in a healthy population sample: The Atherosclerosis Risk In Communities study. *Am Heart J.* 2002;143(5):808-813
3. **Carnethon MR**, Liao D, Evans GW, Cascio WE, Chambless LE, Rosamond WD, Heiss G. Does the cardiac autonomic response to postural change predict incident coronary heart disease and mortality? The Atherosclerosis Risk in Communities Study. *Am J Epidemiol.* 2002;155(1):48-56
4. **Carnethon MR**, Palaniappan LP, Burchfiel CM, Brancati FL, Fortmann SP. Serum insulin, obesity, and the incidence of type 2 diabetes in black and white adults: the atherosclerosis risk in communities study: 1987-1998. *Diabetes Care.* 2002;25(8):1358-1364.PMC3132185
5. Liao D, **Carnethon M**, Evans GW, Cascio WE, Heiss G. Lower heart rate variability is associated with the development of coronary heart disease in individuals with diabetes: the atherosclerosis risk in communities (ARIC) study. *Diabetes.* 2002;51(12):3524-3531
6. Palaniappan LP, **Carnethon MR**, Fortmann SP. Heterogeneity in the relationship between ethnicity, BMI, and fasting insulin. *Diabetes Care.* 2002;25(8):1351-1357.PMC3121929
7. **Carnethon MR**, Anthony MS, Cascio WE, Folsom AR, Rautaharju PM, Liao D, Evans GW, Heiss G. A prospective evaluation of the risk of QT prolongation with hormone replacement therapy: the atherosclerosis risk in communities study. *Ann Epidemiol.* 2003;13(7):530-536
8. **Carnethon MR**, Anthony MS, Cascio WE, Folsom AR, Rautaharju PM, Liao D, Evans GW, Heiss G. Prospective association between hormone replacement therapy, heart rate, and heart rate variability. The Atherosclerosis risk in communities study. *J Clin Epidemiol.* 2003;56(6):565-571
9. **Carnethon MR**, Fortmann SP, Palaniappan L, Duncan BB, Schmidt MI, Chambless LE. Risk factors for progression to incident hyperinsulinemia: the Atherosclerosis Risk in Communities Study, 1987-1998. *Am J Epidemiol.* 2003;158(11):1058-1067

10. **Carnethon MR**, Gidding SS, Nehgme R, Sidney S, Jacobs DR, Jr., Liu K. Cardiorespiratory fitness in young adulthood and the development of cardiovascular disease risk factors. *JAMA*. 2003;290(23):3092-3100
11. **Carnethon MR**, Golden SH, Folsom AR, Haskell W, Liao D. Prospective investigation of autonomic nervous system function and the development of type 2 diabetes: the Atherosclerosis Risk In Communities study, 1987-1998. *Circulation*. 2003;107(17):2190-2195
12. **Carnethon MR**, Jacobs DR, Jr., Sidney S, Liu K, study C. Influence of autonomic nervous system dysfunction on the development of type 2 diabetes: the CARDIA study. *Diabetes Care*. 2003;26(11):3035-3041
13. **Carnethon MR**, Kinder LS, Fair JM, Stafford RS, Fortmann SP. Symptoms of depression as a risk factor for incident diabetes: findings from the National Health and Nutrition Examination Epidemiologic Follow-up Study, 1971-1992. *Am J Epidemiol*. 2003;158(5):416-423
14. Palaniappan L, **Carnethon M**, Fortmann SP. Association between microalbuminuria and the metabolic syndrome: NHANES III. *Am J Hypertens*. 2003;16(11 Pt 1):952-958
15. Park YW, Zhu S, Palaniappan L, Heshka S, **Carnethon MR**, Heymsfield SB. The metabolic syndrome: prevalence and associated risk factor findings in the US population from the Third National Health and Nutrition Examination Survey, 1988-1994. *Arch Intern Med*. 2003;163(4):427-436.PMC3146257
16. Wrono EM, **Carnethon MR**, Palaniappan L, Fortmann SP, Third National H, Nutrition Examination S. Association of dietary protein intake and microalbuminuria in healthy adults: Third National Health and Nutrition Examination Survey. *Am J Kidney Dis*. 2003;41(3):580-587
17. **Carnethon MR**, Loria CM, Hill JO, Sidney S, Savage PJ, Liu K, Coronary Artery Risk Development in Young Adults s. Risk factors for the metabolic syndrome: the Coronary Artery Risk Development in Young Adults (CARDIA) study, 1985-2001. *Diabetes Care*. 2004;27(11):2707-2715
18. Eimer MJ, Ekery DL, Rigolin VH, Bonow RO, **Carnethon MR**, Cotts WG. Elevated B-type natriuretic peptide in asymptomatic men with chronic aortic regurgitation and preserved left ventricular systolic function. *Am J Cardiol*. 2004;94(5):676-678
19. Kinder LS, **Carnethon MR**, Palaniappan LP, King AC, Fortmann SP. Depression and the metabolic syndrome in young adults: findings from the Third National Health and Nutrition Examination Survey. *Psychosom Med*. 2004;66(3):316-322
20. Palaniappan L, **Carnethon MR**, Wang Y, Hanley AJ, Fortmann SP, Haffner SM, Wagenknecht L, Insulin Resistance Atherosclerosis S. Predictors of the incident metabolic syndrome in adults: the Insulin Resistance Atherosclerosis Study. *Diabetes Care*. 2004;27(3):788-793
21. **Carnethon MR**, Bertoni AG, Shea S, Greenland P, Ni H, Jacobs DR, Jr., Saad M, Liu K. Racial/Ethnic differences in subclinical atherosclerosis among adults with diabetes: the multiethnic study of atherosclerosis. *Diabetes Care*. 2005;28(11):2768-2770
22. **Carnethon MR**, Gulati M, Greenland P. Prevalence and cardiovascular disease correlates of low cardiorespiratory fitness in adolescents and adults. *JAMA*. 2005;294(23):2981-2988
23. **Carnethon MR**, Jacobs DR, Jr., Sidney S, Sternfeld B, Gidding SS, Shoushtari C, Liu K. A longitudinal study of physical activity and heart rate recovery: CARDIA, 1987-1993. *Med Sci Sports Exerc*. 2005;37(4):606-612

24. Daviglus ML, Greenland P, Stamler J, Elliott P, Appel LJ, **Carnethon MR**, Chan Q, Claeys G, Kesteloot H, Miura K, Nakagawa H, Pirzada A, Steffen L, Yan LL, Zhou B, Dyer AR. Relation of nutrient intake to microalbuminuria in nondiabetic middle-aged men and women: International Population Study on Macronutrients and Blood Pressure (INTERMAP). *Am J Kidney Dis.* 2005;45(2):256-266.PMC6556768
25. **Carnethon MR**, Lynch EB, Dyer AR, Lloyd-Jones DM, Wang R, Garside DB, Greenland P. Comparison of risk factors for cardiovascular mortality in black and white adults. *Arch Intern Med.* 2006;166(11):1196-1202
26. **Carnethon MR**, Prineas RJ, Temprosa M, Zhang ZM, Uwaifo G, Molitch ME, Diabetes Prevention Program Research G. The association among autonomic nervous system function, incident diabetes, and intervention arm in the Diabetes Prevention Program. *Diabetes Care.* 2006;29(4):914-919.PMC1751934
27. Kizilbash MA, **Carnethon MR**, Chan C, Jacobs DR, Sidney S, Liu K. The temporal relationship between heart rate recovery immediately after exercise and the metabolic syndrome: the CARDIA study. *Eur Heart J.* 2006;27(13):1592-1596
28. **Carnethon MR**, Biggs ML, Barzilay JI, Smith NL, Vaccarino V, Bertoni AG, Arnold A, Siscovick D. Longitudinal association between depressive symptoms and incident type 2 diabetes mellitus in older adults: the cardiovascular health study. *Arch Intern Med.* 2007;167(8):802-807
29. Gunderson EP, Lewis CE, Tsai AL, Chiang V, **Carnethon M**, Quesenberry CP, Jr., Sidney S. A 20-year prospective study of childbearing and incidence of diabetes in young women, controlling for glycemia before conception: the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Diabetes.* 2007;56(12):2990-2996.PMC2952440
30. Jae SY, **Carnethon MR**, Heffernan KS, Choi YH, Lee MK, Fernhall B. Association between cardiorespiratory fitness and prevalence of carotid atherosclerosis among men with hypertension. *Am Heart J.* 2007;153(6):1001-1005
31. Kizilbash MA, **Carnethon MR**, Chan C, Jacobs DR, Jr., Lloyd-Jones DM, Sidney S, Liu K. The association of heart rate recovery immediately after exercise with coronary artery calcium: the coronary artery risk development in young adults study. *Clin Auton Res.* 2007;17(1):46-49.PMC1797060
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39. Jae SY, **Carnethon MR**, Heffernan KS, Choi YH, Lee MK, Park WH, Fernhall B. Slow heart rate recovery after exercise is associated with carotid atherosclerosis. *Atherosclerosis*. 2008;196(1):256-261
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43. Auchincloss AH, Diez Roux AV, Mujahid MS, Shen M, Bertoni AG, **Carnethon MR**. Neighborhood resources for physical activity and healthy foods and incidence of type 2 diabetes mellitus: the Multi-Ethnic study of Atherosclerosis. *Arch Intern Med*. 2009;169(18):1698-1704.PMC2828356
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Cardiovascular Health Study, and the Multi-Ethnic Study of Atherosclerosis. *Circulation*. 2012;126(1):50-59.PMC3437934

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